CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-09-11-03** **Date: 13-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kondappa Layout Eastern Side Cross Roads in Ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/160/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-09-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.26	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

****End of Report****

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-09-11-03** **Date: 14-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kondappa Layout Eastern Side Cross Roads in Ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/160/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-03-02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	350	350	2.3	97.7	90-100
3	20 mm	5642	5992	39.9	60.1	30-70
4	10 mm	4365	10357	69.0	31.0	10-35
5	4.75 mm	4205	14562	97.1	2.9	0-5
6	Pan	438	15000	100.0	0	---

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-09-11-03** **Date: 14-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kondappa Layout Eastern Side Cross Roads in Ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/160/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-03-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-09-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	142	228	22.8	77.2	60-95	75-100	85-100	95-100
4	1.18 mm	153	381	38.1	61.9	30-70	55-90	75-100	90-100
5	600 micron	166	547	54.7	45.3	15-34	35-59	60-79	80-100
6	300 micron	189	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	170	906	90.6	9.4	0-10	0-10	0-10	0-15
8	Pan	94	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 15-09-17

Lab ID	:	**CP-2017-09-11-03**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kondappa Layout Eastern Side Cross Roads in Ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/160/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-03/04
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	11/09/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.53	100.51	1.316	4480	81.9	18.3	17.0	21.3
2	Cover Slab-2	75.49	100.48	1.322	4475	82.5	18.4	17.1	21.4
3	Cover Slab-3	75.54	100.46	1.328	4481	82.8	18.5	17.2	21.5

Note:

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Quality Manager

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****End of Report****

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2017

Lab ID : **CP-2017-09-23-02**
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Kondappa Layout Eastern Side Cross Roads in Ward No.02 of Yelahanka Sub Division.
Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE(YNK.D)/W.O/160/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-09-17
Sample ID No : 2017-09-23-02-06
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 17/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	19/09/2017	17/10/2017	150.32 X 150.34 X 150.35	22599	8.355	470.1	20.8	21.2
2	M20 Concrete	M20	19/09/2017	17/10/2017	150.29 X 150.27 X 150.35	22584	8.241	481.0	21.3	
3	M20 Concrete	M20	19/09/2017	17/10/2017	150.30 X 150.35 X 150.25	22598	8.301	488.1	21.6	

Note:
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

CP/TF/01

Lab ID : CP-2017-09-23-02

Date: 17/10/2017

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kondappa Layout Eastern Side Cross Roads in Ward No.02 of Yelahanka Sub Division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/160/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-17

Sample ID No : 2017-09-23-02-08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	19/09/2017	17/10/2017	150.32 X 150.34 X 150.35	22599	8.355	488.1	21.6	21.5
2	M20 Concrete	M20	19/09/2017	17/10/2017	150.29 X 150.27 X 150.35	22584	8.241	490.1	21.7	
3	M20 Concrete	M20	19/09/2017	17/10/2017	150.30 X 150.35 X 150.25	22598	8.301	481.3	21.3	

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